

In the Specification:

At page 86, please replace page 86 with the page 86 that is attached hereto.

In the Figures:

Please replace the formal drawings that were filed on November 20, 2001 with the formal drawings that are attached hereto.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 18-1945, under Order No. JHUC-P04-010 from which the undersigned is authorized to draw.

Dated: November 8, 2004

Respectfully submitted,

By 

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Table 1. Effects of synthetic and plant-derived compounds on cholesterol homeostasis.

A. Cholesterol Biosynthesis Assay						
	Control	AY9944 ( $\mu$ M)	Tripalanol ( $\mu$ M)	Jervine ( $\mu$ M)	Cyclopamine ( $\mu$ M)	Tomatidine ( $\mu$ M)
Total Sterols ( $\mu$ g/mg protein)	9.6	7.6 8.3 8.3	0.25 0.5 1.0 4.1 5.1 3.1	1.25 2.5 5.0 8.8 8.4 10	1.25 2.5 5.0 8.4 8.5 8.3	1.25 2.5 5.0 7.8 7.8 5.6
Percent Sterols						
Cholesterol	95	30 33 34	56 45 51	90 90 88	87 76 68	54 42 32
Non-Cholesterol Sterols						
1. C27 Sterols						
a. Desmosterol	1.9		9.1 8.7 6.7	2.5 2.4 2.7	4.2 7.1 11	
b. 7 Dehydrodesmosterol	3.5 3.0 1.9		6.0 4.1 2.9		0.8	0.8 0.8 0.5
c. Cholesta-7,24-dien-3 $\beta$ -ol	1.8 1.9 1.6		3.1 2.4 2.6	0.5 0.5	0.6 0.9 1.6	0.9 0.9 0.7
d. Zymosterol			9.3 27 23	1.7 2.0 2.3	2.3 4.5 4.7	
e. Cholesta-8(14)-en-3 $\beta$ -ol	9.7 14 20		9.1 8.7 7.3	1.0 1.7 2.3	0.9 2.5 2.7	6.7 8.9 8.7
f. 7 Dehydrocholesterol	50 36 16			1.5 1.4 1.3	2.4 4.2 6.3	19 14 9.8
g. Lathosterol	1.3	6.2 7.3 7.9				4.9 4.7 3.6
h. C27 Sterol 1 (mw 384)		5.3				7.0 13 20
i. C27 Sterol 2 (mw 382)		6.0				4.1 4.7
j. C27 Oxysterol 1 (mw 400)						1.0 2.4 4.5
k. C27 Oxysterol 2 (mw 400)						2.0 5.0 11
2. C28 Sterols	0.7	1.1 2.6	4.4 2.6 1.5	1.2 0.7 0.7	1.2 1.3 1.8	1.6
3. C29 Sterols	1	3.3 4.6	7.8 8.1 5.5	0.8 0.8 1.6	0.7 1.2 3.1	3.1

B. Cholesterol Esterification Assay						
	AY9944 ( $\mu$ M)	Tripalanol ( $\mu$ M)	Jervine ( $\mu$ M)	Cyclopamine ( $\mu$ M)	Tomatidine ( $\mu$ M)	
Percent Inhibition (Incorporation of label into cholesteryl ester*)	2.5 5.0 10	2.5 5.0 10	2.5 5.0 10	2.5 5.0 10	2.5 5.0 10	
<sup>3</sup> H-Cholesterol	39 56 68	49 57 79	24 44 50	48 67 79	31 33 39	
<sup>14</sup> C-Oleic Acid	20 35 51	54 65 81	28 36 49	45 62 74	30 64 52	

\* The percent of label taken up that was converted to cholesteryl ester was 8% for <sup>3</sup>H-cholesterol and 3.6% for <sup>14</sup>C-oleic acid

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